



Protein

PubMed Nucleotide Protein Genome Structure PMC Taxonomy OMIM

Search: for

Limits Preview/Index History Clipboard Data

Display: Show:

1: P20905. 5-hydroxytryptami...[gi:112805]

[BLink](#), [Domains](#), [Links](#)

LOCUS P20905 564 aa linear INV 15-SEP-2003

DEFINITION 5-hydroxytryptamine receptor 1 (5-HT receptor) (Serotonin receptor).

ACCESSION P20905

VERSION P20905 GI:112805

DBSOURCE swissprot: locus 5HT1_DROME, accession P20905; class: standard. extra accessions: Q9VA21, created: Feb 1, 1991. sequence updated: Feb 1, 1991. annotation updated: Sep 15, 2003. xrefs: gi: [156724](#), gi: [156725](#), gi: [23172738](#), gi: [7302000](#) xrefs (non-sequence databases): FlyBaseFBgn0004573, InterProIPR000276, InterProIPR007455, PfamPF00001, PfamPF04360, PRINTSPR00237, PROSITEPS00237, PROSITEPS50262

KEYWORDS G-protein coupled receptor; Transmembrane; Glycoprotein; Repeat.

SOURCE Drosophila melanogaster (fruit fly)

ORGANISM Drosophila melanogaster
Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota; Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha; Ephydriidea; Drosophilidae; Drosophila.

REFERENCE 1 (residues 1 to 564)

AUTHORS Witz, P., Amlaiky, N., Plassat, J.L., Maroteaux, L., Borrelli, E. and Hen, R.

TITLE Cloning and characterization of a Drosophila serotonin receptor that activates adenylyl cyclase

JOURNAL Proc. Natl. Acad. Sci. U.S.A. 87 (22), 8940-8944 (1990)

MEDLINE [91062395](#)

PUBMED [2174167](#)

REMARK SEQUENCE FROM N.A.

STRAIN=Oregon-R; TISSUE=Head

REFERENCE 2 (residues 1 to 564)

AUTHORS Adams, M.D., Celniker, S.E., Holt, R.A., Evans, C.A., Gocayne, J.D., Amanatides, P.G., Scherer, S.E., Li, P.W., Hoskins, R.A., Galle, R.F., George, R.A., Lewis, S.E., Richards, S., Ashburner, M., Henderson, S.N., Sutton, G.G., Wortman, J.R., Yandell, M.D., Zhang, Q., Chen, L.X., Brandon, R.C., Rogers, Y.-H.C., Blazej, R.G., Champe, M., Pfeiffer, B.D., Wan, K.H., Doyle, C., Baxter, E.G., Helt, G., Nelson, C.R., Miklos, G.L.G., Abril, J.F., Agbayani, A., An, H.-J., Andrews-Pfannkoch, C., Baldwin, D., Ballew, R.M., Basu, A., Baxendale, J., Bayraktaroglu, L., Beasley, E.M., Beeson, K.Y., Benos, P.V., Berman, B.P., Bhandari, D., Bolshakov, S., Borkova, D., Botchan, M.R., Bouck, J., Brokstein, P., Brottier, P., Burtis, K.C., Busam, D.A., Butler, H., Cadieu, E., Center, A., Chandra, I., Cherry, J.M., Cawley, S., Dahake, C., Davenport, L.B., Davies, P., de Pablo, B., Delcher, A., Deng, Z., Mays, A.D., Dew, I., Dietz, S.M., Dodson, K., Doup, L.E., Downes, M., Dugan-Rocha, S., Dunkov, B.C., Dunn, P., Durbin, K.J., Evangelista, C.C., Ferraz, C., Ferriera, S., Fleischmann, W., Fosler, C., Gabrielian, A.E., Garg, N.S., Gelbart, W.M., Glasser, K., Glodek, A., Gong, F., Gorrell, J.H., Gu, Z., Guan, P., Harris, M., Harris, N.L., Harvey, D., Heiman, T.J.,

Hernandez, J.R., Houck, J., Hostin, D., Houston, K.A., Howland, T.J., Wei, M.-H., Ibegwam, C., Jalali, M., Kalush, F., Karpen, G.H., Ke, Z., Kennison, J.A., Ketchum, K.A., Kimmel, B.E., Kodira, C.D., Kraft, C., Kravitz, S., Kulp, D., Lai, Z., Lasko, P., Lei, Y., Levitsky, A.A., Li, J., Li, Z., Liang, Y., Lin, X., Liu, X., Mattei, B., McIntosh, T.C., McLeod, M.P., McPherson, D., Merkulov, G., Milshina, N.V., Mobarry, C., Morris, J., Moshrefi, A., Mount, S.M., Moy, M., Murphy, B., Murphy, L., Muzny, D.M., Nelson, D.L., Nelson, D.R., Nelson, K.A., Nixon, K., Nusskern, D.R., Pacleb, J.M., Palazzolo, M., Pittman, G.S., Pan, S., Pollard, J., Puri, V., Reese, M.G., Reinert, K., Remington, K., Saunders, R.D.C., Scheeler, F., Shen, H., Shue, B.C., Siden-Kiamos, I., Simpson, M., Skupski, M.P., Smith, T., Spier, E., Spradling, A.C., Stapleton, M., Strong, R., Sun, E., Svirskas, R., Tector, C., Turner, R., Venter, E., Wang, A.H., Wang, X., Wang, Z.-Y., Wassarman, D.A., Weinstock, G.M., Weissenbach, J., Williams, S.M., Woodage, T., Worley, K.C., Wu, D., Yang, S., Yao, Q.A., Ye, J., Yeh, R.-F., Zaveri, J.S., Zhan, M., Zhang, G., Zhao, Q., Zheng, L., Zheng, X.H., Zhong, F.N., Zhong, W., Zhou, X., Zhu, S., Zhu, X., Smith, H.O., Gibbs, R.A., Myers, E.W., Rubin, G.M. and Venter, J.C.

TITLE The genome sequence of *Drosophila melanogaster*

JOURNAL *Science* 287 (5461), 2185-2195 (2000)

MEDLINE 20196006

PUBMED 10731132

REMARK SEQUENCE FROM N.A.

REMARK STRAIN=Berkeley

COMMENT -----

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[FUNCTION] THIS IS ONE OF THE SEVERAL DIFFERENT RECEPTORS FOR 5-HYDROXYTRYPTAMINE (SEROTONIN), A BIOGENIC HORMONE THAT FUNCTIONS AS A NEUROTRANSMITTER, A HORMONE, AND A MITOGEN. THE ACTIVITY OF THIS RECEPTOR IS MEDIATED BY G PROTEINS WHICH ACTIVATE ADENYLYL CYCLASE.

[SUBCELLULAR LOCATION] Integral membrane protein.

[TISSUE SPECIFICITY] Head.

[SIMILARITY] Belongs to family 1 of G-protein coupled receptors.

FEATURES Location/Qualifiers

source 1..564
/organism="Drosophila melanogaster"
/db_xref="taxon:7227"

gene 1..564
/gene="5-HT7"
/note="synonyms: 5HT-R1, CG12073"

Protein 1..564
/gene="5-HT7"
/product="5-hydroxytryptamine receptor 1"

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/note="0 (POTENTIAL)."

Region 89..106
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Region 165..188
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121 syqgitssnl gdsnttlvpl sdtpllleef aagefvlppl tsifvsivll ivilgtvvgn
181 vlvciavcmv rklrrpcnvl lvslalsdlc vallvmpmal lyevlekwnf gpllcidiwvs
241 fdvlccctasi lnlcaisvdr ylaitkpley gvkrtprmm lcvgivwlaa acislpplli
301 lgngehedeeg qpietvcqnf ayqiyatlgs fyiplsvmlf vyyqifraar rivleekraq
361 thlqqalngt gspsapqapp lghlassg ngqrhssvgn tslytystcgg lssgggalag
421 hsggggvsgs tglgsphhk klrfqlakek kasttlgiim saftvcwlpf filalirpfe
481 tmhvpa1ss lflwlgyans llnpiiyatl nrdfrkpfqe ilyfrcssln tmmrenyyqd
541 qygeppsqrv mlgderhgar esfl
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